





IN THE CHAPTED STATES PATENT AND TRADEMARK OFFICE

Serial No .:

10/649,056

Filing Date:

August 27, 2003

Applicant:

Epstein et al.

Group Art Unit:

1774

Examiner:

Yamnitzky

Entitled:

ELECTROLUMINESCENCE IN LIGHT EMITTING

POLYMERS FEATURING DEAGGREGATED POLYMERS

Docket No.:

OSU1159-059H

Mail Stop AMENDMENT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8 (A)

Date of Deposit: Wow We Look

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient

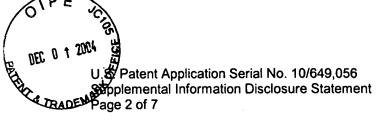
postage as first-class mail in an envelope addressed to Mail Stop AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Trisha M. Beachy

Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

As authorized and encouraged under 37 CFR §§ 1.97-1.98 and the provisions of MPEP §§ 609 and 707.05(b), Applicants submit herewith certain supplemental patent references, publications and/or other information which the Patent and Trademark Office may wish to consider in examining the above-identified patent application. The references and information are listed below and on attached form PTO-1449.



U.S. PATENT DOCUMENTS

Document Number	Name
3,734,597	Churchill et al.
3,873,185	Rogers
4,356,429	Tang
4,704,559	Suginoya et al.
4,806,212	Wessling et al.
4,940,640	MacDiarmid
5,121,029	Hosokawa et al.
5,254,633	Han et al.
5,336,546	Hironaka et al.
5,458,977	Hosokawa et al.
5,486,406	Shi
5,514,878	Holmes et al.
5,554,450	Shi et al.
5,585,561	Bahl et al.
5,597,890	Jenekhe
5,601,903	Fujii et al.
5,604,398	Zyung et al.
5,652,067	Ito et al.
5,698,858	Börner
5,702,833	Nagai et al.
5,712,361	Stern et al.
5,719,467	Antoniadis et al.
5,804,100	Angelopoulos et al.
5,955,834	Epstein et al.
6,004,681	Epstein et al.
6,235,414	Epstein et al.
6,623,870	Epstein et al.

FOREIGN PATENT DOCUMENTS

Document Number	Name
AU 711694	Epstein et al.
AU 712433	Epstein et al.
AU 735823	Epstein et al.
AU 738209	Epstein et al.
CA 2,262,925	Wang et al.

U.S. Patent Application Serial No. 10/649,056 Supplemental Information Disclosure Statement Page 3 of 7

CA 2,262,929	Epstein et al.
CA 2,279,330	Epstein et al.
EP 0745658 A1	Wildeman et al.
EP 0553950 A2	Egusa et al.
JP 3-273087	Nakano et al.
JP 3526877	Wang et al.
WO 96/26830	Epstein et al.
WO 96/29747	Epstein et al.
WO 98/05693	Epstein et al.
WO 98/05494	Epstein et al.
WO 98/06122	Epstein et al.
WO 98/41065	Epstein et al.

OTHER DOCUMENTS

_ ,			
Document			
Berggren, M. et al., Nature, 372, pp. 444, 446 (December 1994).			
Blatchford, J.W., Ph.D. thesis, The Ohio State University, 238 pages (1996).			
Blatchford, J.W. et al., Physical Review B, 54, pp. 9180-9189 (October 1996).			
Blatchford, J.W. et al., Mat. Res. Soc. Symp. Proc., 413, pp. 671-676 (1996).			
Blatchford, J.W. et al., J. Chem. Phys., 105, pp. 9214-9226 (November 1996).			
Blatchford, J.W. et al., Am. J. Phys., 64, pp. 120-135 (February 1996)			
Blatchford, J.W. et al., Physical Review Letters, 76, pp. 1513-1516 (February			
1996).			
Blatchford, J.W. et al., Physical Review B., Rapid Communications, 54, pp. R3683-			
R3686 (August 1996).			
Blachford, J.W. et al., Time Resolved Vibrational Spectroscopy VII, 5 pages,			
(1997).			
Bradley, D.D.C., Synthetic Metals, 54, pp. 401-415 (1993).			
Braun, D. et al., Appl. Phys. Lett., 58, pp. 1982-1984 (1991).			
Brown, A.R. et al., Appl. Phys. Lett., 61, pp. 2793-2795 (December 1992).			
Burroughes, J.H. et al., Nature, 347, pp. 539-541 (October 1990).			
Diaz-Garcia, M.A. et al., Appl. Phys. Lett., 70, pp. 3191-3193 (June 1997).			
Diaz-Garcia, M.A. et al., "Semiconducting polymers as a new class of solid-state			
laser materials", 8 pages, source and publication date not given.			
Epstein, A.J. et al., Synthetic Metals, 78, pp. 253-261 (1996).			
Epstein, A.J. et al., Macromol. Symp., 116, pp. 27-38 (1997).			
Epstein, A.J. et al., Polymer Reprints, 37, pp. 133-134 (1996).			

Froloy, S.V. et al., "Cooperative Emission In .pi.-conjugated Polymer Thin Films", 14 pages, source and publication date not given. Fu, D.K. et al., Tetrahedron, 53, pp. 15487-15494 (1997). Gebler, D.D. et al., J. Appl. Phys., 78, pp. 4264-4266 (September 1995). Gebler, D.D. et al., Appl. Phys. Lett., 70, pp. 1644-1646 (March 1997). Gebler, D.D. et al., J. Appl. Phys., 78, pp. 1-3 (September 1995). Gebler, D.D. et al., Synthetic Metals, 85, pp. 1205-1208 (1997). Greenham, N.C. et al., Nature, 365, pp. 628-630 (October 1993). Grem, G. et al., Adv. Mater., 4, pp. 36-37 (1992). Gruner, J. et al., Adv. Mater., 6, pp. 748-752 (1994). Hamaguchi, M. et al., Appl. Phys. Lett., 69, pp. 143-145 (July 1996). Hamaguchi, M. et al., Jpn. J. Appl. Phys., 35, pp. L1462-L1464 (November 1996). Hu, B. et al., J. Appl. Phys., 76, pp. 2419-2422 (August 1994). Jenekhe, S.A. et al., Adv. Mater., 7, pp. 309-311 (1995). Jeneke, S.A. et al., Science, 265, pp. 765-768 (August 1994). Jessen, S.W. et al., "Direct and Photoinduced Absorption in Poly(p-pyridyl vinylene): Morphological Control of Triplet Excitons and Polarons", pp. 0-11 (unpublished). Jessen, S.W. et al., Polymeric Material Science & Engineering, 72, pp. 573-574 (1995).Jessen, S.W. et al., Proc. Soc. of Plastics Engineers Annual Technical Conference, pp. 1433-1436 (May 1996). Jessen, S.W. et al., Synthetic Metals, 84, pp. 501-506 (1997). Kido, J., TRIP, 2, pp. 350-355 (October 1994). MacDiarmd, A.G. et al., SPIE, 2528, pp. 2-12 (1995). MacDiarmid, A.G. et al., IS&T's 49th Annual Conference, pp. 381-384 (1996). MacDiarmid, A.G. et al., Mat. Res. Soc. Symp. Proc., 413, pp. 3-12 (1996). MacDiarmid, A.G. et al., Proc. Summer Topical Meetings, 2 pages (August 1995). MacDiarmid, A.G. et al., Proceedings Multifunctional Polymers Workshop, 47 pages (January - February 1996). MacDiarmid, A.G. et al., Proceedings of Society of Photo-Optic Instrumentation and Engineering, 11 pages (July 1995). MacDiarmid, A.G. et al., Proc. Soc. of Plastics Engineers Annual Technical Conference, pp. 1314-1317 (May 1996). Marsella, M.J. et al., Adv. Mater., 7, pp. 145-147 (1995). Miyamae, T. et al., J. Chem. Phys., 103, 2738-2744 (1995). Mori, T. et al., Appl. Phys. Lett., 69, pp. 3309-3311 (November 1996). Ohmori, Y. et al., Jpn. J. Appl. Phys., 31, pp. L568-L570 (1992). Ohmori, Y. et al., Sol. St. Comm., 80, pp. 605-608 (1991). Onoda, M., J. Appl. Phys., 78, pp. 1327-1333, (July 1995).

Osaheni, J.A. et al., Macromol., 27 pp. 739-742 (1994).					
Parker, I.D., J. Appl. Phys., 75, pp. 1656-1666 (February 1994).					
Parker, I.D. et al., Appl. Phys. Lett., 65, pp. 1272-1274 (September 1994).					
Partridge, R.H., Polymer, 24, pp. 733-768 (June 1983).					
Pei, Q. et al., Science, 269, pp. 1086-1088 (August 1995).					
Pope, M. et al., "Electronic Processes in Organic Crystals", Oxford University Press,					
New York, pp. 739 (1982).					
Quillard, S. et al., Nonlinear Optics, 10, pp. 253-262 (1995).					
Rothberg, L., Nature, 37, pp. 518-519 (October 1990).					
Scherf, U. et al., Makromol. Chem., Rapid Commun., 12, 498-497 (1991).					
Scherf, U. et al., Advances in Polymer Science, 123, pp. 1-40 (1995).					
Scherf, U. et al., Synthesis, pp. 23-38 (January/February 1992).					
Tang, C.W. et al., Appl. Phys. Lett., 51, pp. 913-915 (September 1987).					
Tian, J. et al., Chem. Mater., 7, pp. 2190-2198 (1995).					
Vestweber, H. et al., Adv. Mater., 4, pp. 661-662 (1992).					
Wang, H.L. et al., Polymer Preprints, 36, pp. 45-46 (1995).					
Wang, H.L. et al., Synthetic Metals, 78, pp. 33-37 (1996).					
Wang, Y.Z. et al, SPIE-The International Society for Optical Engineering, 2528, pp.					
54-61 (July 1995).					
Wang, Y.Z. et al., Appl. Phys. Lett., 68, pp. 894-896 (February 1996).					
Wang, Y.Z. et al., Mat. Res. Soc. Symp. Proc., 413, pp. 115-120 (1996).					
Wang, Y.Z. et al., Proc. Soc. of Plastics Engineers Annual Technical Conference,					
pp. 1327-1331 (1996).					
Wang, Y.Z. et al., Appl. Phys. Lett., 70, pp. 3215-3217 (June 1997).					
Wang, Y.Z. et al., "Light-Emitting Devices Based on Pyridine-Containing					
Conjugated Polymers", 4 pages (1996).					
Wang, Y.Z. et al., Synthetic Metals, 85, pp. 1179-1182 (1997).					
Wang, Y.Z. et al., Proc. Soc. of Plastics Engineers Annual Technical Conference, 4					
pages (July-August 1997).					
Weaver, M.S. et al., Thin Solid Films, 273, pp. 39-47 (1996).					
www.chem.ed.ac.uk/leigh/home/rotcatintro.html (01/04/04)					
Wei, X.L. et al., J. Am. Chem. Soc., 118, pp. 2545-2555 (1996).					
Whittman, H.F. et al., Adv. Mater., 7, pp. 541-544 (1995).					
Yamamoto, T. et al., Chemistry Letters, pp. 153-154 (1988).					
Yamashita, K. et al., 1996 Autumn 57 th JSAP Annual Meeting Digest III, 7p-ZM-1,					
pp. 984 (September 1996).					
Yang, Y. et al., J. Appl. Phys. 79, pp. 934-939, (January 1996).					
Yang, Y. et al., J. Appl. Phys., 77, pp. 694-698 (January 1995).					
Yang, Y. et al., Appl. Phys. Lett., 68, pp. 2708-2710 (May 1996).					
Yang, Y. et al., Appl. Phys. Lett., 64, pp. 1245-1247 (March 1994).					

Zhang, C. et al., Synthetic Metals, 62, pp. 35-40 (1994).

In accordance with 37 CFR § 1.98, a copy of each document, other than the U.S. patents, is included for the express purpose of providing the Patent and Trademark Office with ample opportunity to evaluate the same and arrive at an independent assessment of the materiality of each, if any, to the examination of the above-identified application.

In reviewing the enclosed copies, the Examiner is instructed to ignore any underscoring or highlighting which may have been done because such markings may or may not have any relationship to the subject matter of the above-identified application. The copies being submitted with this Information Disclosure Statement are the best copies available at this time.

The identification of any document herein is not intended to be, and should not be understood as being, an admission that each such document, in fact, constitutes "prior art" within the meaning of applicable law.

Applicants submit this statement in accordance with their duty of disclosure under 37 C.F.R. §1.56. This statement is filed in accordance with 37 C.F.R. 1.97(c), after the mailing date of a first Office Action on the merits, but before the mailing date of either a final action or a Notice of Allowance.

This Information Disclosure Statement is accompanied by a fee as required by 37 C.F.R. 1.97(c) in the amount of \$180.00 as set forth in 37 C.F.R. 1.17(p).

U.S. Patent Application Serial No. 10/649,056 Supplemental Information Disclosure Statement Page 7 of 7

Applicants respectfully request that the documents cited herein be made of record in the normal manner and that such documents appear on the printed patent as being considered and made of record.

Respectfully submitted,

Date: 11-24-04

By:

Michael Stonebrook Registration No.: 53,851 Standley Law Group LLP

495 Metro Place South, Suite 210

Dublin, Ohio 43017-5315 Telephone: (614) 792-5555 Facsimile: (614) 792-5536



FORM PTO-1449 TO BE FILED WITH **INFORMATION DISCLOSURE STATEMENT**

U.S. Department of Commerce

Patent and Trademark Office

DISCLOSURE STATEMENT

SUPPLEMENTAL INFORMATION

BY APPLICANTS

Atty. Docket No.: OSU1159-059H

Serial No.: 10/649,056

Filing Date: August 27, 2003

Applicant: Esptein et al. Group Art Unit: 1774

Examiner: Yamnitzky

U.S. PATENT DOCUMENTS

Examiner's	Document			Class/
Initial	Number	Date	Name	Sub-class
	3,734,597	5/22/1973	Churchill et al.	350/160 LC
	3,873,185	3/25/1975	Rogers	350/147
	4,356,429	10/26/1982	Tang	313/503
	4,704,559	11/3/1987	Suginoya et al.	315/169.1
	4,806,212	2/21/1989	Wessling et al.	204/130
	4,940,640	7/10/1990	MacDiarmid	429/213
	5,121,029	6/9/1992	Hosokawa et al.	313/504
	5,254,633	10/19/1993	Han et al.	525/327.4
	5,336,546	8/9/1994	Hironaka et al.	428/209
	5,458,977	10/17/1995	Hosokawa et al.	428/411.1
	5,486,406	1/23/1996	Shi	428/209
	5,514,878	5/7/1996	Holmes et al.	257/40
	5,554,450	9/10/1996	Shi et al.	428/690
	5,585,561	12/17/1996	Bahl et al.	73/504.16
	5,597,890	1/28/1997	Jenekhe	528/397
	5,601,903	2/11/1997	Fujii et al.	428/212
	5,604,398	2/18/1997	Zyung et al.	313/506
	5,652,067	7/29/1997	Ito et al.	428/690
	5,698,858	12/16/1997	Börner	250/484.2
	5,702,833	12/30/1997	Nagai et al.	428/690
	5,712,361	1/27/1998	Stern et al.	528/86
	5,719,467	2/17/1998	Antoniadis et al.	313/506
	5,804,100	9/8/1998	Angelopoulos et al.	252/521
	5,955,834	9/21/1999	Epstein et al.	313/501
	6,004,681	12/21/1999	Epstein et al.	428/457
	6,235,414	5/22/2001	Epstein et al.	428/690
	6,623,870	9/23/2003	Epstein et al.	428/690

FOREIGN PATENT DOCUMENTS

Examiner's Initial	Document Number	Date	Name	Translation yes/no
initiai				
	AU 711694	2/3/2000	Epstein et al.	N/A
	AU 712433	2/17/2000	Epstein et al.	N/A
	AU 735823	11/1/2001	Epstein et al.	N/A
	AU 738209	1/3/2002	Epstein et al.	N/A
	CA 2,262,925	3/26/2002	Wang et al.	N/A
	CA 2,262,929	10/7/2003	Epstein et al.	N/A
	CA 2,279,330	5/25/2004	Epstein et al.	N/A
	EP 0745658 A1	12/4/1996	Wildeman et al.	N/A
-	EP 0553950 A2	8/4/1993	Egusa et al.	N/A
	JP 3-273087	12/4/1991	Nakano et al.	Yes (abstract)
	JP 3526877	5/17/2004	Wang et al.	No
	WO 96/26830	9/6/1996	Epstein et al.	N/A
	WO 96/29747	9/26/1996	Epstein et al.	N/A
	WO 98/05693	2/12/1998	Epstein et al.	N/A
	WO 98/05494	2/12/1998	Epstein et al.	N/A
	WO 98/06122	2/12/1998	Epstein et al.	N/A
	WO 98/41065	2/17/1998	Epstein et al.	N/A

OTHER DOCUMENTS

Examiner's Initial	Document		
	Berggren, M. et al., Nature, 372, pp. 444, 446 (December 1994).		
	Blatchford, J.W., Ph.D. thesis, The Ohio State University, 238 pages (1996).		
	Blatchford, J.W. et al., Physical Review B, 54, pp. 9180-9189 (October 1996).		
	Blatchford, J.W. et al., Mat. Res. Soc. Symp. Proc., 413, pp. 671-676 (1996).		
	Blatchford, J.W. et al., J. Chem. Phys., 105, pp. 9214-9226 (November 1996).		
	Blatchford, J.W. et al., Am. J. Phys., 64, pp. 120-135 (February 1996)		
	Blatchford, J.W. et al., Physical Review Letters, 76, pp. 1513-1516 (February 1996).		
	Blatchford, J.W. et al., Physical Review B., Rapid Communications, 54, pp. R3683-R3686 (August 1996).		
	Blachford, J.W. et al., Time Resolved Vibrational Spectroscopy VII, 5 pages, (1997).		
	Bradley, D.D.C., Synthetic Metals, 54, pp. 401-415 (1993).		

Braun, D. et al., Appl. Phys. Lett., 58, pp. 1982-1984 (1991).
 Brown, A.R. et al., Appl. Phys. Lett., 61, pp. 2793-2795 (December 1992).
Burroughes, J.H. et al., Nature, 347, pp. 539-541 (October 1990).
Diaz-Garcia, M.A. et al., Appl. Phys. Lett., 70, pp. 3191-3193 (June 1997).
Diaz-Garcia, M.A. et al., "Semiconducting polymers as a new class of
solid-state laser materials", 8 pages, source and publication date not given.
 Epstein, A.J. et al., Synthetic Metals, 78, pp. 253-261 (1996).
Epstein, A.J. et al., Macromol. Symp., 116, pp. 27-38 (1997).
Epstein, A.J. et al., Polymer Reprints, 37, pp. 133-134 (1996).
 Frolov, S.V. et al., "Cooperative Emission In .piconjugated Polymer Thin
Films", 14 pages, source and publication date not given.
Fu, D.K. et al., Tetrahedron, 53, pp. 15487-15494 (1997).
Gebler, D.D. et al., J. Appl. Phys., 78, pp. 4264-4266 (September 1995).
Gebler, D.D. et al., Appl. Phys. Lett., 70, pp. 1644-1646 (March 1997).
 Gebler, D.D. et al., J. Appl. Phys., 78, pp. 1-3 (September 1995).
 Gebler, D.D. et al., Synthetic Metals, 85, pp. 1205-1208 (1997).
 Greenham, N.C. et al., Nature, 365, pp. 628-630 (October 1993).
 Grem, G. et al., Adv. Mater., 4, pp. 36-37 (1992).
 Gruner, J. et al., Adv. Mater., 6, pp. 748-752 (1994).
 Hamaguchi, M. et al., Appl. Phys. Lett., 69, pp. 143-145 (July 1996).
Hamaguchi, M. et al., Jpn. J. Appl. Phys., 35, pp. L1462-L1464 (November 1996).
Hu, B. et al., J. Appl. Phys., 76, pp. 2419-2422 (August 1994).
 Jenekhe, S.A. et al., Adv. Mater., 7, pp. 309-311 (1995).
Jeneke, S.A. et al., Science, 265, pp. 765-768 (August 1994).
Jessen, S.W. et al., "Direct and Photoinduced Absorption in Poly(p-pyridyl
vinylene): Morphological Control of Triplet Excitons and Polarons", pp. 0-11 (unpublished).
Jessen, S.W. et al., Polymeric Material Science & Engineering, 72, pp.
573-574 (1995).
 Jessen, S.W. et al., Proc. Soc. of Plastics Engineers Annual Technical
Conference, pp. 1433-1436 (May 1996).
 Jessen, S.W. et al., Synthetic Metals, 84, pp. 501-506 (1997).
 Kido, J., TRIP, 2, pp. 350-355 (October 1994).
 MacDiarmd, A.G. et al., SPIE, 2528, pp. 2-12 (1995).
 MacDiarmid, A.G. et al., IS&T's 49th Annual Conference, pp. 381-384
(1996).
 MacDiarmid, A.G. et al., Mat. Res. Soc. Symp. Proc., 413, pp. 3-12 (1996).
MacDiarmid, A.G. et al., Proc. Summer Topical Meetings, 2 pages (August 1995).
 MacDiarmid, A.G. et al., Proceedings Multifunctional Polymers Workshop,
47 pages (January – February 1996).
MacDiarmid, A.G. et al., Proceedings of Society of Photo-Optic
Instrumentation and Engineering, 11 pages (July 1995).
 MacDiarmid, A.G. et al., Proc. Soc. of Plastics Engineers Annual Technical
Conference, pp. 1314-1317 (May 1996).
 1 como cito, pp. 1014 1017 (may 1000).

 Marsella, M.J. et al., Adv. Mater., 7, pp. 145-147 (1995).
Miyamae, T. et al., J. Chem. Phys., 103, 2738-2744 (1995).
Mori, T. et al., Appl. Phys. Lett., 69, pp. 3309-3311 (November 1996).
Ohmori, Y. et al., Jpn. J. Appl. Phys., 31, pp. L568-L570 (1992).
Ohmori, Y. et al., Sol. St. Comm., 80, pp. 605-608 (1991).
Onoda, M., J. Appl. Phys., 78, pp. 1327-1333, (July 1995).
Osaheni, J.A. et al., Macromol., 27 pp. 739-742 (1994).
 Parker, I.D., J. Appl. Phys., 75, pp. 1656-1666 (February 1994).
 Parker, I.D. et al., Appl. Phys. Lett., 65, pp. 1272-1274 (September 1994).
 Partridge, R.H., Polymer, 24, pp. 733-768 (June 1983).
Pei, Q. et al., Science, 269, pp. 1086-1088 (August 1995).
Pope, M. et al., "Electronic Processes in Organic Crystals", Oxford
University Press, New York, pp. 739 (1982).
Quillard, S. et al., Nonlinear Optics, 10, pp. 253-262 (1995).
Rothberg, L., Nature, 37, pp. 518-519 (October 1990).
Scherf, U. et al., Makromol. Chem., Rapid Commun., 12, 498-497 (1991).
Scherf, U. et al., Advances in Polymer Science, 123, pp. 1-40 (1995).
Scherf, U. et al., Synthesis, pp. 23-38 (January/February 1992).
 Tang, C.W. et al., Appl. Phys. Lett., 51, pp. 913-915 (September 1987).
Tian, J. et al., Chem. Mater., 7, pp. 2190-2198 (1995).
Vestweber, H. et al., Adv. Mater., 4, pp. 661-662 (1992).
Wang, H.L. et al., Polymer Preprints, 36, pp. 45-46 (1995).
Wang, H.L. et al., Synthetic Metals, 78, pp. 33-37 (1996).
Wang, Y.Z. et al, SPIE-The International Society for Optical Engineering,
2528, pp. 54-61 (July 1995).
Wang, Y.Z. et al., Appl. Phys. Lett., 68, pp. 894-896 (February 1996).
Wang, Y.Z. et al., Mat. Res. Soc. Symp. Proc., 413, pp. 115-120 (1996).
Wang, Y.Z. et al., Proc. Soc. of Plastics Engineers Annual Technical
 Conference, pp. 1327-1331 (1996).
Wang, Y.Z. et al., Appl. Phys. Lett., 70, pp. 3215-3217 (June 1997).
Wang, Y.Z. et al., "Light-Emitting Devices Based on Pyridine-Containing
Conjugated Polymers", 4 pages (1996).
Wang, Y.Z. et al., Synthetic Metals, 85, pp. 1179-1182 (1997).
Wang, Y.Z. et al., Proc. Soc. of Plastics Engineers Annual Technical
Conference, 4 pages (July-August 1997).
Weaver, M.S. et al., Thin Solid Films, 273, pp. 39-47 (1996).
www.chem.ed.ac.uk/leigh/home/rotcatintro.html (01/04/04)
Wei, X.L. et al., J. Am. Chem. Soc., 118, pp. 2545-2555 (1996).
Whittman, H.F. et al., Adv. Mater., 7, pp. 541-544 (1995).
 Yamamoto, T. et al., Chemistry Letters, pp. 153-154 (1988).
Yamashita, K. et al., 1996 Autumn 57 th JSAP Annual Meeting Digest III,
 7p-ZM-1, pp. 984 (September 1996).
Yang, Y. et al., J. Appl. Phys. 79, pp. 934-939, (January 1996).
Yang, Y. et al., J. Appl. Phys., 77, pp. 694-698 (January 1995).
Yang, Y. et al., Appl. Phys. Lett., 68, pp. 2708-2710 (May 1996).

	Vene V et al. Appl Dhys Lett. 64 pp. 1245 1247 (March 1994)
	Yang, Y. et al., Appl. Phys. Lett., 64, pp. 1245-1247 (March 1994).
	Zhang, C. et al., Synthetic Metals, 62, pp. 35-40 (1994).
1	Zilarig, G. Gran, Gyriarotto instanc, GL, pp. 65

	Data Canaidarad
Examiner	Date Considered

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

The identification of any document herein is not intended to be, and should not be understood as being, an admission that each such document, in fact, constitutes "prior art" within the meaning of applicable law since, for example, a given document may have a later effective date than at first seems apparent or the document may have an effective date which can be antedated. The "prior art" status of any document is a matter to be resolved during prosecution.